

87th Annual

Purdue Road School

March 20 & 21, 2001


Stewart Center • Purdue University



New this year register on line at: www.purdue.edu/jtrp



Road School At a Glance

Conference at a Glance 87th Annual Purdue Road School	
Time	Tuesday, March 20
7:30	Road School Registration
8:30 - 10:00	Opening Session
10:15 - 11:45	Paving Your Highway to Success: Improving Your Supervisory Skills Site Manager New Developments in Funding Opportunities Pavement Issues ITS in Small Cities and Rural Areas Safety Issues Bicycle Facilities Design and Safety
11:30 - 2:00	Exhibitors Luncheon Purdue Memorial Union North/South Ballrooms
1:30 - 3:00	No Time Like the Present Part of a 3-hour session High Performance Concrete Material Design, Production and Testing (3 Hours) Environmental Issues (3 Hours) Innovations in Equipment (3 Hours) Traffic Issues/Institute of Transportation Engineers (3 Hours) Land Use in Rural Planning (3 Hours) Maintenance Issues (3 Hours)
3:15 - 4:30	Making the Right Decision Partnering: An Indiana Transportation Success Story Part of a 3-hour session High Performance Concrete Material Design, Production and Testing (3 Hours) Environmental Issues (3 Hours) Innovations in Equipment (3 Hours) Traffic Issues/Institute of Transportation Engineers (3 Hours) Land Use in Rural Planning (3 Hours) Maintenance Issues (3 Hours)

 3 - Hour Session

Road School At a Glance

Conference at a Glance 87th Annual Purdue Road School	
Time	Wednesday, March 21
7:30	Road School Registration
8:30 - 10:00	City Engineers Meeting County Auditors Meeting County Commissioners Meeting County Highway Engineers and Supervisors Meeting Indiana Street Commissioners Meeting Part of a 3-hour session INDOT Meeting
10:15 - 11:45	County Surveyors Meeting City Issues Roundtable County Issues Roundtable Part of a 3-hour session INDOT Meeting
12:00 - 1:30	Road School Luncheon Purdue Memorial Union North/South Ballrooms
1:30 - 3:00	From Dull to Dynamic: Transforming Your Presentations Public Right-of-Way Issues Transportation 2001 Part of a 3-hour session Context Sensitive Design European Perspective and Basic Concepts (3 Hours) Collective Hydraulic (3 Hours) Applications of GIS in Transportation (3 Hours) Highway Administration and Management (3 Hours)
3:15 - 4:30	County Surveyors Meeting Concrete Construction Techniques Liability and Lawsuits MUTCD Millennium Edition Update Part of a 3-hour session Context Sensitive Design European Perspective and Basic Concepts (3 Hours) Collective Hydraulic (3 Hours) Applications of GIS in Transportation (3 Hours) Highway Administration and Management (3 Hours)

 All - day Session
 3 - Hour Session

The Road School Team

Road School Co-Chairmen

Kumares Sinha, Director, Joint Transportation Research Program, Purdue University

Charles Scholer, Faculty Representative, Indiana LTAP, Purdue University

Road School Co-Coordiators

Karen Hatke, Program Coordinator, Joint Transportation Research Program, Purdue University

Tom Martin, Program Manager, Indiana LTAP, Purdue University

Road School Associates

Walt Land, Road School Liaison, INDOT

Bob McCullough, Information Technology Administrator, Joint Transportation Research Program, Purdue University

John Habermann, Research Engineer, Indiana LTAP, Purdue University

Linda McCormack, Editor and Resource Specialist, Indiana LTAP, Purdue University

Jim Turley, Project Manager, Indiana LTAP, Purdue University

Marsha Mondell, Secretary, Indiana LTAP, Purdue University

Tom Robertson, Conference Coordinator, Center for Lifelong Learning, Purdue University

Transportation Graduate Research Assistants, School of Civil Engineering, Purdue University

2001 Road School Steering Committee

Lloyd Bandy, Asphalt Pavement Association

Paul Berebitsky, Indiana Constructors, Inc.

John Burkhardt, City of Indianapolis Department of Public Works

Mike Byers, Indiana Chapter, American Concrete Pavement Assoc.

Terry Byrns, INDOT-Seymour District

John Crist, LaGrange County Engineer

Merril Dougherty, INDOT Design Division

Allen Egilmez, United Consulting Engineers & Architects

Steve Fehrbach, A & F Engineering Co., LLC

Jeff French, Ripley County Surveyor

Bill Haan, Indiana Association of County Commissioners

Mary Jo Hamman, INDOT-Design Division

Dave Henkel, President-ITE Indiana Section

Don Johnson, Federal Highway Administration

Shari Hinds, Burgess & Niple

Dennis Kuchler, INDOT-Contracts and Construction Division

Jerry Larson, Tipton County Highway Supervisor

Larry Lee, City of Lebanon Street Commissioner

Bruce Mason, Indiana Mineral Aggregates Association

Tom Morton, Indiana Assoc. of Cities and Towns

Paul Satterly, Vice President-ITE Indiana Section

Bill Sipes, Indiana Assoc. of County Commissioners

Patti Smith, Fountain County Auditor

Jim Ude, INDOT-Seymour District

Garry Warren, City of Brazil Street Commissioner

Kate Weese, City of Carmel Engineer

Rick Whitney, INDOT Chief Financial Officer

John Williams, Mayor of City of Bedford

Road School Agenda

**Tuesday
March 20**

General Session

8:30-10:00

Room: Loeb Theatre

*Presider: Kumares Sinha,
Co-Chairman, Purdue Road School,
& Director, Joint Transportation Research Program,
Purdue University*

Cristine Klika, Commissioner, INDOT
George Ostensen, Director, Midwest Resource Center, FHWA

Concurrent Sessions

Paving Your Highway to Success: Improving Your Supervisory Skills

10:15-11:45

Room: 306

This interactive workshop will help you to better establish your presence as a supervisor. You will learn how to apply proven techniques in the important supervisory skills – motivating, delegating, coaching, and counseling.

Dan Lybrook, Associate Professor,
Organizational Leadership and Supervision,
Purdue University

Road School Agenda

**Tuesday
March 20**

Concurrent Sessions

SiteManager® Overview and Status Update

10:15-11:45

Room: 311

Presider: Jim Nugent, Chief, Systems Technology Division

This presentation will consist of an overview of SiteManager and its implementation at INDOT, including a brief demo of the first INDOT pilot contract.

Jim Snyder, Construction Systems Manager, Systems Technology Division, INDOT

Rick Yunker, Construction Field Engineer, Contracts and Construction Division, INDOT

Deb Hood, Project Supervisor, Crawfordsville District, INDOT

Pavement Issues

10:15-11:45

Room: 214 A-B

Presider: Dave Andrews, Materials Engineer, Materials and Test Division, INDOT

Cold-In-Place Recycling for Urban and Rural Construction (New Technology and Process Controls to Facilitate Cost Effective Asphalt Recycling)

David Rose, Sales Manager, MSO Construction

Maximizing Pavement Life for County Subdivisions

Jason LaCroix, Sales Engineer, Contech Construction Products

Duane Alverson, Highway Engineer, Lake County

Road School Agenda

**Tuesday
March 20**

Concurrent Sessions

Intelligent Transportation Systems in Small Cities and Rural Areas

10:15-11:45

Room: 218 C-D

Presider: Darcy Bullock, Associate Professor, School of Civil Engineering, Purdue University

This presentation will be an overview of ITS and its rural deployment implications and implementation. Weather-related ITS applications will also be discussed.

Steve Beningo, Rural ITS Specialist, Midwestern Resource Center, FHWA

Safety Issues

10:15-11:45

Room: 314

Presider: John Nagle, Safety/Congestion Management Engineer, Program Development Division, INDOT

**Leadership Team for Surface Transportation
Safety in Indiana**

Karen Mathis, Safety Engineer, FHWA-Indiana Division

Aggressive Driving

Karen Mathis, Safety Engineer, FHWA-Indiana Division

Sgt. David Murray, Indiana State Police

Sgt. Shana Kennedy, Indiana State Police

Break Room

The Break Room, 206 Stewart Center, will be available for conference participants on Tuesday and Wednesday from 8:30-11:30 a.m. and to 4:30 p.m.

Road School Agenda

**Tuesday
March 20**

Concurrent Sessions

New Developments in Funding Opportunities

10:15-11:45

Room: 302

Presider: Rick Whitney, Chief Financial Officer, INDOT

Local Federal Funds 2001 - Rules and Discussion

Gary Eaton, Chief, Policy and Budget Division, INDOT

Tim Miller, Scheduling Manager, Policy and Budget Division, INDOT

Laura Monk, MPO Financial Liaison, INDOT

INSTIP (Indiana's Statewide Transportation Improvement Plan)

Tim Miller, Scheduling Manager, Policy and Budget Division, INDOT

Indiana State Gas Tax: Where Does It Go?

Chris Kubik, Economist, Policy and Budget Division, INDOT

Bicycle Facilities Design and Safety

10:15-11:45

Room: 320

Presider: Connie Szabo Schmucker, Executive Director, Indiana Bicycle Coalition

This session will focus on design and safety considerations for bicycle lanes and shared use paths.

David Noyce, Professor of Civil and Environmental Engineering, University of Massachusetts

Exhibitors Luncheon

11:30 am - 2:00 p.m.

North/South Ballrooms
Memorial Union

All participants are invited to enjoy an extended lunch from the sandwich buffet provided free of charge by the participating exhibitors.

Your name badge is required for admission.

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Road School Agenda

**Tuesday
March 20**

Concurrent Sessions

No Time Like the Present

1:30 - 3:00

Room: 306

This program will focus on how to maximize our most important commodity...TIME. Participants will assess their time management habits and tips for managing time will be discussed.

Cindy Brewer, Organization and Career Development Consultant, Personnel Services, Purdue University

Back to Basics - High Performance Concrete: Material Design, Production and Testing - .3 CEU

1:30-4:30

Room: 214 A-B

Higher strength concrete has become more widely used in transportation over the last two decades and this workshop will provide an overview of its use, as well as basic principles for material selection, mixture design, placement, curing, and testing procedures.

Jan Olek, Associate Professor and Director of North Central Superpave Center, School of Civil Engineering, Purdue University

Jason Weiss, Assistant Professor, School of Civil Engineering, Purdue University

Break Room

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Road School Agenda

**Tuesday
March 20**

Concurrent Sessions



Environmental Issues - .3 CEU

1:30-4:30

Room: 218 C-D

Presider: Phyllis Hockett, Manager of Environmental Services, Engineering, Environment, and Planning Division, INDOT

Non-Regulated USTs

Max Michael, Chief, Emergency Response Section, IDEM
Roy Harbert, Senior Environmental Manager, Leaking Underground Storage Tanks Section, IDEM

Ann Black, Senior Special Projects Manager, Remediation Branch, IDEM

Wetland Mitigation - Past, Present, and Future

Steve Sperry, Environmental Scientist, Environmental Assessment Section, INDOT

Break 3:00 - 3:15

Effective Stormwater Quality Management for Transportation Agencies and Municipalities

Lori Gates, Stormwater Coordinator, Office of Water Quality, IDEM

Jon Stolz, PE, Christopher B. Burke Engineering, LTD.

Road School Agenda

**Tuesday
March 20**

Concurrent Sessions

Innovations in Equipment

1:30-4:30

Room: 318

Presider: Larry Campbell, Fleet Manager, Allen County

2010 and Beyond: Construction and Equipment Trends

Richard Diestelhorst, Product Consultant, Caterpillar Inc.

Weight Distribution and What the Future Holds for Trucks

Keith Strutzenberg, Volvo Trucks of Indianapolis and Fort Wayne

Break 3:00 - 3:15

What's New in Snow and Ice Equipment?

Glenn Beck, Sales Representative, Henderson Manufacturing Co.

Applications of Robotics Technology to Construction and Maintenance Equipment

M.J. Skibniewski, Professor, School of Civil Engineering, Purdue University

Break Room

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Road School Agenda

**Tuesday
March 20**

Concurrent Sessions

Traffic Issues/Institute of Transportation Engineers - .3 CEU

1:30-4:30

Room: 314

Presider: Paul Satterly, PE, President, Indiana Section ITE, and Transportation Engineer, HNTB Corp.

Management and Operation of Transportation Systems

Steven Gayle, International President, ITE

Automated Detection and Classification of Bicycles and Pedestrians

David Noyce, Professor of Civil and Environmental Engineering, University of Massachusetts

Introduction to the New INDOT Work Zone

Safety Handbook

John Habermann, Research Engineer, Indiana LTAP, Purdue University

Illinois Department of Transportation, Traffic Signal-Railroad Interconnects

Yogesh Gautam, Traffic Operations Engineer, Illinois DOT

Issues with Advance Train Preemption of Traffic Signals

Tom Urbanik, Associate Director, Texas Transportation Institute

Road School Agenda

**Tuesday
March 20**

Concurrent Sessions

Land Use in Rural Planning- .3 CEU

1:30-4:30

Room: 320

Presider: Mark Spelbring, Extension Land Use Specialist, Agriculture Economics Department, Purdue University

Overview of Land Use Topics and Land Use Education for Local Officials

Mark Spelbring, Extension Land Use Specialist, Agriculture Economics Department, Purdue University

Fiscal Impacts of Development

Larry DeBoer, Local Government Finance Specialist, Agriculture Economics Department, Purdue University

Break 3:00 - 3:15

Planning with POWER

(Protecting Our Water and Environmental Resources)

Bob McCormick, Extension Specialist, Forestry Department, Purdue University

The Rural/Urban Conflict

Rick Chase, District Director, Extension Services, Purdue University

Break Room

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Break Room

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Road School Agenda

**Tuesday
March 20**

Concurrent Sessions

Maintenance Issues

1:30-4:30 p.m.

Room: 302

Presider: Terry Byrns, Operations Engineer, Seymour District, INDOT

**Roadside Vegetation Management Program
(Alternative Methods and INDOT's Practical
Application of One in Seymour)**

Michael Dana, Professor, Department of Horticulture,
Purdue University

Chris Dillman, Landscape Architect,
Seymour District, INDOT

Statewide Communications System Update

Lewis Hartman, Communications Specialist, INDOT

Prepackaged Creosote Salt Storage Buildings

Mike Hougland, Safety Coordinator,
Seymour District, INDOT

INDOT Building and Grounds Program

Steve McAvo, Facilities Manager, Operations Support
Division, INDOT

Break 3:00 - 3:15

INDOT Winter Operations Team

Dennis Belter, Program Support Manager, Operations
Support Division, INDOT

Anti-Icing with Caliber M-1000

Pat Condon, Roadway Maintenance Superintendent,
Toll Road District, INDOT

Anti-Icing/De-Icing with Salt Brine

Tom Konieczny, Operations Engineer, LaPorte
District, INDOT

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Road School Agenda

**Tuesday
March 20**

Concurrent Sessions

Making the Right Decisions

3:15-4:30

Room: 306

Making the right decision means knowing the customer's priorities and constantly looking for ways to improve our product. This session will describe the steps of good decision making and how they can make you more effective in delivering your program.

John Baxter PE, Division Administrator, FHWA
Indiana Division

Jay DuMontelle, Financial Specialist, FHWA
Indiana Division

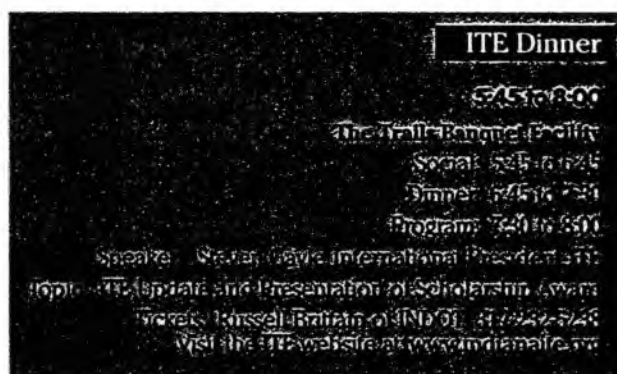
Partnering ~ An Indiana Transportation Success Story

3:15-4:30

Room: 311

This session will explain the "partnering" process and how to successfully utilize it to construct high quality projects in a non-adversarial, low stress, fun fashion.

Steve Schneider PE, President-Owner,
White Knight Services



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Road School Agenda

Wednesday
March 21

Associations Meetings

County Highway Engineers and Supervisors Meeting

8:30-10:00

Room: 306

Presider: John Crist, President, IACHES

Business Meeting

County Auditors Meeting

8:30-10:00

Room: 318

Presider: Sharon Duke, President, ICAA

Business Meeting

County Commissioners Meeting

8:30-10:00

Room: 314

Presider: Karen Pennington, President, IACC

Business Meeting

Discussion: Road Funding in the Legislature
Open Forum

Indiana Street Commissioners Meeting

8:30-10:00

Room: 218 A-D

Presider: Garry Warren, President, ISCA

Business Meeting

Street Funding

John Habermann, Research Engineer, Indiana LTAP,
Purdue University

Road School Agenda

Wednesday
March 21

Associations Meetings

City Engineers Meeting

8:30-10:00

Room: 214 A-B

Presider: Kate Weese, City Engineer, City of Carmel

Business Meeting

Introductions and Membership Roster

Secretary/Treasurer Report

Association Issues/Business

Newsletter

Future Meetings

Open Discussion (Possible Topics)

Utilities in RW

Traffic Calming

Construction Standards/Management

Sidewalk/Street Light Program

Current Legislature Issues

County Surveyors Meeting

8:30-4:30

Room: 310

Presider: Jeff French, President, ICOSA

8:00 Breakfast

Provided by vendor

Business Meeting

Old Business

New Business

Legislation

Discussions Topics

Right-of-way determination

Open burning laws as pertains to legal drains

Huntington County GIS

Grant writing how-to's

Road School Agenda

**Wednesday
March 21**

Associations Meetings

INDOT Meeting

8:30-12:00

Room: 302

Presider: Richard Smutzer, Chief Engineer, INDOT

Garrett Railroad Underpass Project

This will be a panel discussion of the successful resolution of the problems of this restricted project for high-speed trains.

Panel Moderator: Jim Keefer, Construction Engineer, Fort Wayne District, INDOT

John Passey, District Director, Fort Wayne District, INDOT

Herbert Kleeman, Mayor, City of Garrett

Judy Congdon, President, Congdon Engineering Associates

Randy Henderson, Manager, Bridge Department, Congdon Engineering Associates

Keith Lytton, Project Representative, Congdon Engineering Associates

Mike Motil, Project Manager, S. E. Johnson Contractors

Smoothness Awards

Tim Bertram, Chief, Contracts and Construction Division, INDOT

Break 10:00 - 10:15

Implementation of Bentley Microstation CAD at INDOT

Tony Elliott, Applications Consultant, Bentley Transportation

The Right Tree Right Place Program

Pam Louks, Urban Forestry Coordinator, IDNR

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Road School Agenda

**Wednesday
March 21**

Associations Meetings

County Issues Round Table

10:15-11:45

3rd Floor, Stewart Center

There will be facilitated open discussions of the following issues of interest to county officials, including commissioners, auditors, engineers, and supervisors. Just follow the signs in various locations on the 3rd Floor of Stewart Center and feel free to come and go during the discussions.

Bridge Inspection Load Rating

Property Appraisals for Purchasing of Right-of-Ways

Public Construction Issues

Highway Funding

City Issues Round Table

10:15-11:45

2nd Floor, Stewart Center

There will be facilitated open discussions of the following issues of interest to city and town officials, including mayors, city engineers, and street commissioners. Just follow the signs in various locations on the 2nd Floor of Stewart Center and feel free to come and go during the discussions.

Public Construction Issues

Street Funding

Utility Relocation Procedures

Downtown Traffic and Parking Issues

Break Room

The Break Room, 206 Stewart Center, will be available for conference participants on Tuesday and Wednesday, from 8:30 - 11:30 a.m. and 1:30 to 4:30 p.m.

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Road School Agenda

Wednesday
March 21

Road School Luncheon

12:00 - 1:00

North Ball Room

Public Memorial Union

Master of Ceremonies

Ernest M. Kline, Commissioner, INDOT

Invocation

Robert Willford, Professor of Civil Engineering

Purdue University

Guest Speaker

State of Indiana

20 Year NTHS Official and Former Mayor of Indianapolis

Presenters: Tom Beck, HGI-Landacq Consulting

1:00 - 1:30: Break

Road School Agenda

Wednesday
March 21

Concurrent Sessions

Public Right-of-Way Issues

1:30-3:00

Room: 306

Presider: Gregg Budd, President, HGI-Landacq Consulting

Right-of-Way Acquisition... the Moving Target

Gregg Budd, President, HGI-Landacq Consulting

Public R/W: ITE's Investigation of Bicycle and Pedestrian Facility Needs

David A. Noyce, Professor of Civil and Environmental Engineering, University of Massachusetts

Rails to Trails - What Are Your Rights?

Gregg Budd, President, HGI-Landacq Consulting

Transportation 2001

1:30-3:00

Room: 218 A-B

Presider: Larry Goode, Chief, Multi-Modal Division, INDOT

Indiana Public Transit

James English, Rural Transit Program Manager, Multi-Modal Division, INDOT

High Speed Rail in Indiana: An Update

Tom Beck, Rail Planner, Multi-Modal Division, INDOT

Break Room

The Break Room - 206 Stower Center will be available for conference participants on Tuesday and Wednesday from 8:30 - 11:00 a.m. and 1:00 to 4:30 p.m.

Road School Agenda

**Wednesday
March 21**

Concurrent Sessions

From Dull to Dynamic: Transforming Your Presentations

1:30-3:00

Room: 214 A-B

Whether you speak in public rarely or often, you will gain valuable ideas from this session to improve your next speech. Lots of examples and practical tips will be packed into 90 minutes.

Josh Boyd, Assistant Professor, Department of Communication, Purdue University

Highway Administration and Management

1:30-4:30

Room: 302

Presider: John Caton, Executive Vice President, Gove Associates, Inc.

Administration and Management of Local Street and Roads: Revising the 1988 Road and Street Manual

Jim Turley, Project Manager, Indiana LTAP, Purdue University
Nicole Woodward, Graduate Assistant, Indiana LTAP, Purdue University

GASB 34: The Impact of a Recent Accounting Change on State and Local Highway Departments

William Lantz CPA, Deputy Auditor Operations, State of Indiana

Asset Management by LPA's

Tom Sturmer PE, Senior Project Manager, The Schneider Corporation

INDOT's Asset Management Program

John Weaver, Chief, Program Development Division, INDOT

Road School Agenda

**Wednesday
March 21**

Concurrent Sessions

Context Sensitive Design: A European Perspective and Basic Concepts - .3 CEU

1:30-4:30

Room: 311

Presider: Firooz Zandi, Chief, Materials and Tests Division, INDOT

This session will explore basic context sensitive design issues, including functional classification, safety, and the integration of community values into the project development process. It will also present lessons learned from the FHWA/AASHTO Scanning Tour for Geometric and Content Sensitive Design held in Europe last spring.

Sandra Otto PE, Division Administrator, FHWA-Arkansas Division

Dr. Nikiforos Stamatiadis PE, Associate Professor, University of Kentucky

1:30-4:30

Room: 218 C-D

This session will discuss hand calculations, nomographs and the HY8 computer model for performing culvert hydraulics. INDOT's culvert sizing policy will also be discussed.

David D. Finley, PE, Hydraulics Engineer, Design Division, INDOT

Merril E. Dougherty, PE., Hydraulics Engineering Supervisor, Design Division, INDOT

Road School Agenda

**Wednesday
March 21**

Concurrent Sessions

Applications of GIS in Transportation - .3CEU

1:30-4:30

Room: 314

*Presider: David Mockert, Administrator, City of Indianapolis/
Marion County GIS*

Use of GIS in Municipal Transportation

Rick Petrecca, Senior GIS Analyst, City of Indianapolis-
Marion County GIS

Developing a GIS for INDOT

Mike Andrews, Graphics Engineer, Systems Technology
Division, INDOT

Use of GIS in Indiana's Fastest Growing County

Larry Stout, GIS Manager, Hamilton County

Address Issues, Data Standards, and Sharing of GIS Data

Andrew S. Harrison, GIS Business Manager, The Schneider
Corporation

Concrete Construction Techniques

3:15-4:30

Room: 214 A-B

Attend this session to learn some of the tips, tricks, and
traps of ordering, placement, finishing, and curing
concrete for common highway department uses.

Mike Byers, Executive Director, Indiana Chapter,
American Concrete Pavement Association

Road School Agenda

**Wednesday
March 21**

Concurrent Sessions

Liability and Lawsuits

3:15-4:30

Room: 306

Presider: Gary Eakin, Town Manager, Danville, Indiana

This session will focus on minimizing transportation
liability in your county, town or city and will be
especially useful if you are a county commissioner,
mayor, or town manager.

Jan Keefer, Esquire, McHale, Cook and Welch, PC.

MUTCD Millennium Edition Update

3:15-4:30

Room: 218 A-B

*Presider: Dennis Lee, ITS Engineering,
FHWA-Indiana Division*

The new MUTCD incorporates technological advances and
applications, as well as improved overall organization of
the document. This session will highlight the major
changes in the MUTCD and their effect on local
highway agencies.

Dennis Lee, ITS Engineer, FHWA-Indiana Division

Carl Tuttle, Traffic Specialist Engineer, Operations
Support Division, INDOT

Break Room

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to 4:30 p.m.

